Luis Alvarado Labarca

Graduate Computer Science Student

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EDUCATION

University of Utah	Salt Lake City, UT
Master of Science in Computer Science	*Aug 2025 – Dec 2026*
Bachelor of Science in Computer Science, GPA: 3.61	*Jan 2022 – May 2025*

Coursework: Natural Language Processing, Deep Learning, Machine Learning, Data Mining, Advanced Database Systems, Foundations of Data Analysis, Computer Security, Software Practice, Capstone Design

Awards: Hispanic Scholarship Fund Scholar 2023 & 2021, IBM Accelerate Program Participant 2023, Utah Flagship Scholarship 2020, QuestBridge Finalist 2020

SKILLS

Languages: AppsScript, C, C#, C++, CSS, HTML, Java, JavaScript, Python, SQL, TypeScript
Frameworks & Libraries: D3.js, Expo, Jest, NumPy, pandas, PyTorch, React, React Native, scikit-learn
Developer Tools: AWS (Lambda, RDS, S3), Bash, Docker, Excel, Figma, Git, Google Cloud Platform
Soft Skills: Agile, Communication, Documentation, Planning, Presentation, Professional, Teaching, Teamwork

PROJECTS

Passenger Pilot App | *TypeScript, Node.js, React Native, AWS, Google Cloud, Docker*   Aug 2024 – May 2025
- Developed 7 React Native UI/UX screens for trip collaboration features, enabling users to seamlessly split costs, coordinate itineraries, and track travelers within the app
- Designed the ER diagram for the MySQL database, creating a stable scalable model that supported 3 major releases without structural schema changes
- Authored Node.js interfaces for Google Cloud Vision AI, Google Generative AI, and AWS S3 to process user uploads, powering features like automated receipt scanning
- Reviewed 4 merge requests a week across the full stack by examining functionality, code style, and edge cases

Learning Management System Database Backend (LMS Database) | *C#, SQL*   Jan 2024 – Apr 2024
- Designed and developed a backend database using C# and SQL for a LMS web app, which included features like enrollment, assignment creation, assignment grading, and course catalogs for 10 simulated users
- Implemented C# controllers to process complex user interactions, ensuring data integrity across the database
- Established data access layer to the codebase using MySQLConnector and Entity Framework

Salt Lake City Public Library Seed Program Inventory Dashboard | *AppsScript*   Aug 2023 – Oct 2023
- Developed Google Sheets inventory system for the Salt Lake City Public Library's seed-sharing program using Google Forms for data collection and automated updates
- Automated inventory management using AppsScript to update inventory availability, enabling analysis of seed checkouts and facilitating easier inventory searches, reducing update times by 50%
- Constructed 2 dashboards in Google Sheets that displayed patron usage and seed checkouts of the seed library

WORK EXPERIENCE

Teaching Assistant	Aug 2024 – Present
University of Utah - Kahlert School of Computing	*Salt Lake City, UT*

- Worked with professors to guide and track progress of student teams towards their capstone projects
- Collaborated with the primary professor to grade 40+ assignments and return feedback with a one-week turnaround
- Hosted weekly office hours for 10–30 students to help with practice problems, homework, and general support

Library Assistant	Jan 2022 – Oct 2023
Salt Lake City Public Library	*Salt Lake City, UT*

- Collaborated with librarians to improve library services and programs for community members
- Supported digital inclusion initiatives by assisting 20+ patrons weekly with technology use, enhancing their access to library digital resources